

# AGRICULTURAL LIBRARIES INFORMATION NOTES

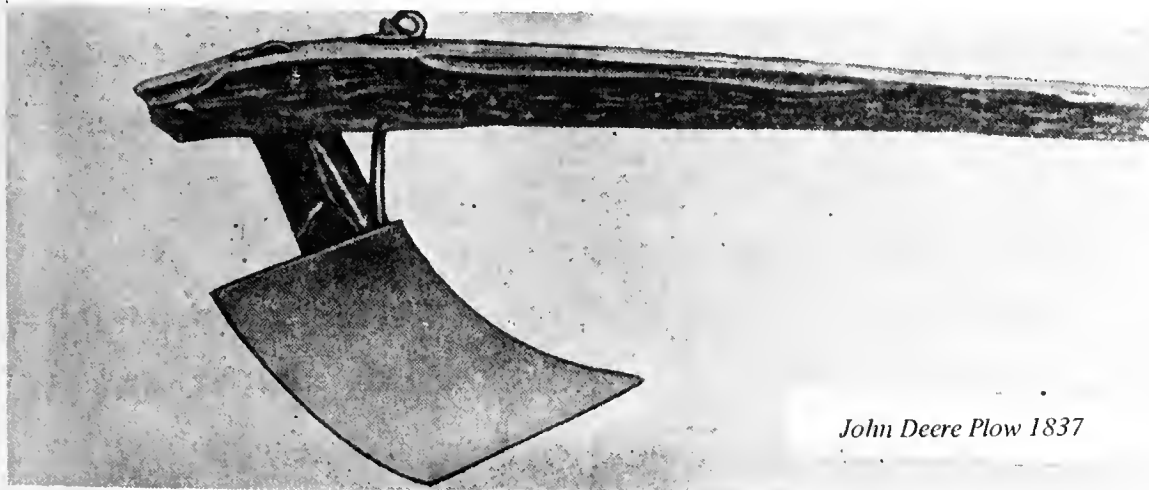
## DEERE ARCHIVAL RETRIEVAL SYSTEM\*

By

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Deere & Company dates back to 1837 when John Deere invented a share that successfully plowed the prairie soil. Today, Deere is a multi-national corporation manufacturing farm machinery, construction equipment and a line of consumer products. The real commitment to an archival program at Deere came with the management decision to retain Wayne Broehl of Dartmouth College to write a history of Deere & Company. The need for gathering and organizing all available corporate records and historical documents to aid in his research was readily apparent - indeed imperative to insure an accurate historical account.

Viewing the amount of material we expected to acquire, it was decided that an on-line interactive data base would best serve our needs. Three interactive software programs were considered. At that time, two of the major data base vendors, System Development Corporation (SDC) and Lockheed Information Systems, were offering to install private files in their computers for on-line access in the same manner as public files. In addition, IBM offered STAIRS (Storage and Information Retrieval System), which could be housed in our company computer.



*John Deere Plow 1837*

\*Excerpts from a presentation made at the meeting Agricultural Information and the Marketplace, St. Louis, Mo., December 9, 1977.

All of the systems met our basic requirements for on-line interactive text retrieval. We considered a number of factors in our selection: 1) Total costs, 2) Flexibility

(continued on page 2)

TECHNICAL INFORMATION SYSTEMS  
SCIENCE AND EDUCATION ADMINISTRATION  
U.S. DEPARTMENT OF AGRICULTURE

VOL. 4, NO. 4/5 APRIL /MAY 1978  
BELTSVILLE, MARYLAND 20705

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of the software program, 3) Time involved in making the system operational, and 4) Location. For our particular application, we found that locating the data base in a vendor computer was more practical and timely than using our own company equipment. The costs also were lower, since purchasing or leasing a software program for single purpose use was high. These factors, plus our familiarity with their requirements and procedures, led us to choose System Development Corporation's ORBIT program.

We found ORBIT an extremely flexible program. There were several options on the processing of our records. A major decision was whether or not to have a fully inverted text. This is accomplished by preprocessing the input and generating the index file using all the words in titles and abstracts and any other designated categories. The pre-processor usually contains a stop list of common words such as "the, and, it", and also eliminates duplicates of words that appear more than once. The extracted words are entered into the index file and therefore if most terms are included, the file size and costs associated with file size are doubled. We chose to keep the file quite simple and rely on string-searching to refine search statements. Using ORBIT's string-searching capabilities, specified categories contained in a set of records can be searched character by character for terms or groups of terms. Because dates are so important in an archival file, SDC programed a special date ranging feature.

Decisions on how the file was to be indexed were being made concurrently with the selection of a software program. Our Archives intends to keep company produced documents of all sorts, materials about the company, its personnel and products, and materials relating to the history of agricultural development.

Ten broad categories of types of information have been established, such as Manufacturing, Financial & Accounting; Product Development; and Administration & Organization. The breakdown under one of the subdivisions (100) Administration & Organization is (170) Published History, under which

falls several Deere published magazines including (172) *Furrow* and (173) *J. D. Journal*. Using our numbering system, it is possible to retrieve – by truncating the numbers – broader or narrower sets of records. Entering ALL 17: (SU) will retrieve all records indexed under Published History as well as those more specifically indexed as *Furrow* and *J. D. Journal*.

As the documents are processed, the information identifying each is written directly on an 80 column **keypunch** form. After the material is keypunched, the data is transferred to tape using a program that also puts the data into ORBIT format. We forward the tape to System Development Corporation in California. The updates are usually added to the file within a week. The file will contain over 12,000 records after January 1, 1978, and 25,000 by the end of 1978. 

## AMERICAN FOLKLIFE CENTER BEGINS NEVADA RANCHING STUDY

A team of researchers from the American Folklife Center in the Library of Congress will begin to document ranching and community life in north central Nevada in May. The team will visit Paradise Valley, a distinctive region of Humboldt County at the foot of the Santa Rosa Mountains.

The Paradise Valley study will take a close look at such broad subjects as local architecture, foodways, and storytelling, and such particular traditions as cattle branding techniques, willow corral construction, and recipes for Basque *chorizo*. The field team will make extensive use of photography and sound recording, amassing materials that can be used in various publications, exhibits, and programs in the community and throughout the state and nation. The May visit is the first phase of the American Folklife Center study; later phases will coincide with seasonal changes in ranch work.

For further information contact the American Folklife Center, Library of Congress, Washington, D.C. 20540, (202) 426-6590.

*News from the Library of  
Congress. PR 78-31 (4-11-78)*




## AGRICOLA ONLINE COURSE JUNE 12 - 16, 1978

The Technical Information Systems, Science and Education Administration is sponsoring a five-day workshop to train librarians and information specialists in the utilization of its AGRICOLA bibliographic data base in an on-line mode. Charles L. Gilreath, who compiled the *CAIN ONLINE USERS MANUAL*, will teach the course with the aid of terminal instructors.

The course will be held June 12-16, 1978 at the Illini Union, University of Illinois, at Champaign-Urbana. Registrants will be responsible for their lodging, meals and transportation, but all equipment, manuals and instructions will be provided. A block of sleeping rooms has been set aside at the Illini Union, University of Illinois, at Champaign-Urbana. In making reservations indicate attendance at the AGRICOLA ONLINE Course. Persons wishing to attend should submit their names on letter-head stationery by May 31, to:

Reference Division, TIS  
National Agricultural Library Building  
Beltsville, Maryland 20705.

Emergency telephone reservations, or inquiries, may be made by calling (301) 344-3834.

Twenty persons will be accepted in the course with preference given to government, land-grant or agriculturally related organizations in the East. The course will provide extensive lecture, exercise, and terminal experience with commercial systems offering AGRICOLA. 

### DOCUMENT DELIVERY REPORT

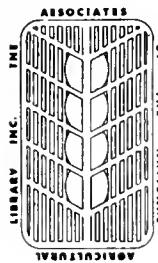
*Regional Document Delivery System in Cooperation with State Land - Grant Libraries. Report for 1977 and comparative data, 1974-77.* Wallace C. Olsen and Ellen J. Newman, Beltsville, MD., U.S. Department of Agriculture, Science and Education Administration, Technical Information Systems (1978) 13 p. Free.

Copies have been distributed to cooperating libraries and **USDA Agency field libraries**. Other interested libraries should forward requests with a self-addressed mailing, label to:

Reference Division TIS/SEA/USDA  
National Agricultural Library Bldg.  
Rm. 111  
Beltsville, MD 20705

## AWARDS TO BE PRESENTED BY ASSOCIATES OF THE NATIONAL AGRICULTURAL LIBRARY, INC.

Three special awards will be made to nominated outstanding recipients in the agricultural library community by the Associates of the National Agricultural Library, Inc., at their annual meeting in the summer of 1978.



The Associates will honor outstanding performance in three different categories. Those honored must be nominated for this special attention by their exceptional contributions to the improvement of the agricultural library system and its literature.

The three categories are:

- (1) **PROFESSIONAL ACHIEVEMENT AWARD** for any published contribution to library literature of meritorious accomplishment in the library science field. *Eligibility:* Open to agricultural/biological librarians and to members of the Associates NAL, Inc.
- (2) **CITATION OF SPECIAL RECOGNITION** for special achievement and/or service given to the National Agricultural Library, to other agricultural libraries, or significant achievements leading to the advancement of the library science field. *Eligibility:* Open to concerned individuals and organizations in the agricultural field, NAL staff, and the Associates NAL, Inc.
- (3) **DISTINGUISHED SERVICE AWARD** recognizes and encourages meritorious performance exceeding job requirements at the National Agricultural Library. *Eligibility:* Open to all members of the National Agricultural Library Staff.

All nominations should be mailed not later than May 31, 1978 to Ms. Barbara J. Williams, Box 1565, South Carolina State College, Orangeburg, SC 29115. Each nomination should include the following information: (1) Name of the award for which the candidate is proposed, (2) a brief statement of the basis of the nomination and, where appropriate a bibliography which supports the nomination. The award takes the form of a bronze medallion. The Associates NAL, Inc., seek your participation and interest.

## CHERRY BLOSSOM TIME IN WASHINGTON, D.C.

Japanese flowering cherry trees – now world famous – were imported from Japan in 1912 to mark the living symbol of friendship between the peoples of Japan and the United States. The story behind these plantings of more than 3,000 trees began when David Fairchild, a Washington, D.C. area resident, became interested in the flowering cherries after a visit to Japan in 1905.

Beautification efforts for the Capitol city in those days included planting trees and shrubs to cover the unsightly swamp bordering the Potomac River. Fairchild had successfully planted cherry trees on a hillside he owned in Maryland, which had inspired others to marvel at the beauty of the flowering cherry tree, or “Sakura”, as it is called by the Japanese.

Eventually the idea of beautifying the river area was suggested to Mrs. William Howard Taft, whose enthusiasm spurred diplomatic efforts between the United States and Japan. A donation of 3,000 cherry trees was made by the people of Japan in 1912 as a gesture of continuing friendship between the two countries.

Ninety-nine percent of the trees planted around the Tidal Basin were later, some even 8 to 12 feet tall, and blooming the first “Cherry Blossom Festival” was staged in 1935, in which many civic groups participated in an annual event of



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*The cherry trees on the Tidal Basin in full bloom in 1938.  
(Courtesy of the Columbia Historical Society)*

In 1954, the Japanese ambassador to the United States presented to Washington an ancient 20-ton ceremonial Japanese stone lantern, which is lighted as Friendship's Flame during the opening of the Cherry Blossom Festival. The presentation marked the 100th anniversary of the first treaty between the United States and Japan, March 31, 1854.

In 1965, the Japanese government made another gift of 3,900 Japanese cherry trees to Washington. The cherry trees originally planted around the Tidal Basin in 1912 are now dying of old age. Only about 28 percent of the trees originally planted are living. The National Arboretum, as part of the USDA's continued interest in these trees, is in the process of preserving some of them.

The cherry blossoms are described in *The Japanese Flowering Cherry Trees of Washington, D.C.* by Roland Jefferson, National Arboretum, and Alan Fusonie, Technical Information Systems, Science and Education Administration, USDA. Copies may be obtained free while they last, by writing to the Publications Division, GPA, U.S. Department of Agriculture, Washington, D.C. 20250.

*Food and Home Notes*, USDA, April 3, 1978



## USERLINE

The Federal Library Committee (FLC) announced the establishment of a new computer-based union list of serial publications (USERLINE), accessible on-line nationwide, at a meeting of Federal libraries held February 1, at the National Agricultural Library (NAL).

The new data base consists of files on serial publications held by the Technical Information Systems, (TIS) Science and Education Administration, USDA; National Oceanic and Atmospheric Administration (NOAA) and the Environmental Protection Agency (EPA), which can be searched on-line separately or jointly, as a union list. These files are accessed through a powerful automated information retrieval system operated by a commercial firm, Bibliographic Retrieval Services, Inc. (BRS). The new system resulted from a request for proposals developed by FLC last summer at the request of the three agency libraries. BRS submitted the winning bid. The computer responds through video display and/or teletype printout to typed commands.

The serials files of the three libraries include some 38,000 entries for newsletters, magazines, professional journals, report series and other serial publications. The files can be readily searched through the system, using words in the titles, or in the names of the publishing organizations, and by other features programmed in the computer.

Placement of the files on-line benefits the individual libraries. Technical Information Systems, for instance, is using the powerful "look-up" system as a tool to support its check-in and handling of journal issues. Simultaneously, the system permits creation of a union list without prior standardization. It allows each library to submit its own records in its own formats, then builds joint look-up tables on the basic data elements, such as title, common to all files. It enables library networks to show the serial holdings of their field libraries.

The system also makes it possible for libraries nationwide to search these files inexpensively, through telecommunication networks to a central computer.

In the future, FLC anticipates improved linkage of the journal records in the different files. FLC confidently expects many new participants, both Federal and other libraries, to contribute their serial files and/or to use the search system. Message switching for interlibrary loan requests is foreseen as a future use.

The three libraries have opened their serials files to each other during an experimental period. The TIS and NOAA files are soon to be available for public access. TIS sees USERLINE as a means to help it discharge its responsibilities as a national library, both to the agricultural and the library community. For further information call TIS (301) 344-3780.



## INTERGOVERNMENTAL PERSONNEL PROPOSALS

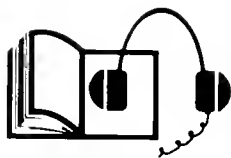
The Food and Nutrition Information and Educational Materials Center (FNIC) of USDA's Science and Education Administration, Technical Information Systems, is soliciting proposals from individuals in state and local government agencies or educational institutions for work of mutual concern and benefit under the Intergovernmental Personnel Act of 1970 (see ALIN 4(2):8). FNIC will be expanding their scope and services beginning in Fiscal Year 1979 and are seeking expertise both in the subject area of nutrition as well as information dissemination of nutrition research and educational materials. Planning for materials selection, reference services, special learning packages, automation activities, user needs studies, promotion and public relations activities will begin prior to October 1978.

All parties involved must reach agreement on release, financial arrangements, tasks to be performed, and a schedule. Assignments may last up to two years. Details of fewer than three months probably will not be considered.

Interested persons should send their letters of inquiry, proposals for work, and resume to:

Food and Nutrition Information Center  
National Agricultural Library Bldg., Room 304  
Beltsville, MD 20705  
(301) 344-3719

## AGRICULTURAL TRANSLATIONS



One of the most common questions coming to us regards the availability of translations. Technical Information Systems reviews article titles before translations are made in order to avoid duplication. We also receive copies on deposit often far in advance of their listings in the standard bibliographic tools. Therefore, this column is being established to alert those interested in knowing about new receipts at TIS.

BALDELLI, B. et al. Use of Gamma Rays for Inactivation of Foot-and-Mouth Disease Virus in Infected Carcasses. Translated from Italian: *Atti. Soc. Ital. Sci. Vet.* 19: 538-542. 1966. TRANS. No. 22517.

BENYEL, L. Producing Basic Material for Vaccine Against FMD at Szolnokon. Translated from Hungarian: *Husipar.* 22 (6) 275-276. 1973. TRANS. No. 22431.

BOHM, H. O. Foot-and-Mouth Disease of Man. Translated from German: *Zentralblatt Vet. Med., Reihe A.* 17: (9): 140-144. 1972. TRANS. No. 22427.

CAPORALE, G. Vaccination of Swine Against FMD with Hydroxylamine and Acetyleneimine. Translated from Italian: *Vet. Ital.* 20 (3-4): 137-147. 1969.

CVETKOVA, C. Vitamin B, Content of Hen's Eggs and Changes During Storage. Translated from Bulgarian: *Veterinarnomeditsinskii Nauki Gad.* 4 (10): 69-72. 1967. TRANS. No. 22421.

DEMnitz, A. Immunization of Measures Taken Against the Present FMD Epizootic in Germany. Translated from French: *Bull. Off. Inter. Epiz.* 39: 79-89. 1953.

FRYK, J. The Grubbing and Transporting of Stumps. Translated from Swedish: *Forskningsstiftelsen Skogsarbeten - Ekonomi.* No. 1. 1976. TRANS. No. 22418.

GALVAO, Cyro de Lima. Studies on the Incidence of Foot-and-Mouth Disease Virus in the State of Bahia. Translated from Portuguese: *Bol. Inst. Biol. Bahia.* 1970, pp. 34 - 42. TRANS. No. 22424.

GASSE, H. Standardization of Sanitary Measures in International Commerce of Animals and Animal Products. General Sanitary Situation of French Live Stock and Prophylaxis Undertaken. Translated from French: *Bull. Off. Int. Epiz.* 64: 2943, 2965. 1965. TRANS. No. 21875.

GRABER, M. Study, Under African Conditions, Of The Antiparasitic Effects of Thiabendazole and Other Current Anthelmintics. Translated from French: *Revue d'Elevage et de Medecine Veterinaire des Pays Tropicaux,* 25 (1): 53-71. 1976. TRANS. No. 21877.

GRUN, E. The Effect of Calf Rearing Concentrates on the Behavior of Serum Enzymes in Calves. Translated from German: *Arch. Tierernahrung.* 22 (5): 323-346. 1972. TRANS. No. 22587.

MALINKINA, M. P. et al. Use of Pentoxyl with Oils for Stimulating Immunity in Animals Vaccinated Against Foot-and-Mouth Disease. Translated from Russian: *Uch. Zap. Kazan. Vet. Inst., Uzkvay.* 105: 66-68. 1969. TRANS. No. 22433.

MASSIE, E. L. A Method of Reduction of Plques [sic] in Disc for Foot-and-Mouth Disease Tests. Translated from Spanish: *Bol. Cent. Panam. Fiebre Aftosa.* 1: 20-25. 1972. TRANS. No. 22425.

These items are available to USDA personnel upon presentation of a loan request (AD-245) with the identification: TRANS.-ALIN 77- along with the citation. Non-USDA persons may request photoduplication at the rate of \$1 for each 10 pages or fraction thereof per citation. TRANS.-ALIN with the serial number 77- MUST be on the request. Both types of requests should be sent to:

Lending Division  
National Agricultural Library  
U.S. Department of Agriculture  
Beltsville, Maryland 20705

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## NEW PUBLICATIONS OF NOTE

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*Plant Bibliography.* Lisle, IL., Council on Botanical and Horticultural Libraries, Inc., No. 1, 1978. \$2.50 per issue. Order from the Council in care of the Morton Arboretum, Lisle, IL., 60532.

*Each issue is on a separate topic and is designed to be an aid to librarians, researchers and others needing specialized bibliographic information in the fields of botany and horticulture. No. 1 is on "Desert Gardening" by Gerold McKiernan. Future issues are planned on vegetable cookery, gesneriads, and orchids.*

### TWO NEW ABSTRACT JOURNALS ON RURAL QUESTIONS

The Commonwealth Bureau of Agricultural Economics launched two new abstract journals in March, 1978:

*Rural Development Abstracts (RDA)* is designed to support the rapidly growing emphasis on rural development in national, regional and world development programs and to provide an over-view, together with a ready means of information search and retrieval from the wide range of studies in world literature bearing on rural development. Subjects covered include rural development theory; policy and planning; physical resources (land, settlements, roads, water, energy); human resources; social and behavioral factors; economic utilization of resources (employment, investment, appropriate technology); public services including local government, education, health, welfare; individual projects and surveys.

*Rural Extension, Education and Training Abstracts (REETA)* will cover the following topics: general and theoretical studies in the broad field of education for rural development; policy, planning and administration of formal and informal education at all levels; curriculum development, extension methodology and practice; personnel; attitudes and adoption; case studies from all fields of rural extension (family programs agriculture, etc.).

Both journals are published quarterly and contain full quarterly and annual author, subject and geographical indexes. The journals are computer processed and are available for computer search on the CAB/Lockheed DIALOG database.

The journals cost \$60.00 per annum (\$40.00 for Commonwealth subscribers) on paper or micro fiche and are available from:

Central Sales,  
Commonwealth Agricultural Bureaux,  
Farnham House,  
Farnham Royal,  
Slough, SL2 3BN, England

The Editorial Office is:

Commonwealth Bureau of Agricultural  
Economics  
Dartington House  
Little Clarendon Street

Oxford, OX1 2HH, England,  
which will be grateful for comments on the new journals or contributions to them.

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## NEW SERIALS RECEIVED AT NAL

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*Electron Spectroscopy; Theory, Techniques and Applications.* London; New York, Academic Press. v.1, 1977. QC454.E4E4.

*Fluid Phase Equilibria.* Amsterdam, Elsevier Scientific Pub. Co. v.1, no.1, 1977. QC138.F55.

*Journal of Analytical Toxicology.* Niles, Ill. Preston Publications, Inc. v.1, no.1, Jan/Feb. 1977. RA1221.J6.

*Journal of Medical Engineering and Technology.* London, United Trade Press. v.1, no.1, Jan. 1977. R856.A1J6.

*State Administrative Officials Classified by Functions.* Lexington, Ky., Council of State Governments. 1977 - JK2679.S7.

*State Elective Officials and the Legislatures.* Lexington, Ky., Council of State Governments. 1977 - JK2679.S72.

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## CAPITOL HILL LEGISLATION

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Legislation under consideration or reports of the most pertinent agricultural legislation before the U. S. Congress are available at Federal depository libraries where they may be used; larger public libraries also have sets available. USDA personnel should contact their D.C. Headquarters office for access to bills.

### AGRICULTURAL CREDIT

*H. R. 11504.* Agricultural Credit Act of 1978. Amends the Consolidated Farm and Rural Development Act, provides an economic emergency loan program to farmers and ranchers in the U. S., and extends the Emergency Livestock Act. Revises and updates the lending authority of Farmers Home Administration making it responsive to the current credit needs of farmers and ranchers; recognizes changes in the farm economy in recent years. Bill reported from Committee on Agriculture, March 18, 1978 (H. Rept. 95-986).

### APPROPRIATIONS

*H. R. 9375.* The Supplemental Appropriations Act, 1978, became law March 7, 1978 (Public Law 95-240). Additional amounts were provided for the Office of the Secretary, Agricultural Marketing Service, Federal Crop Insurance Corporation for subscription to capital stock, Farmers Home Administration for very low-income housing repair grants, Soil Conservation Service of watershed and flood prevention operations, Agricultural Stabilization and Conservation Service program, and for the Forest Service protection and utilization of forests and land management program.

### REORGANIZATION PLANS

Reorganization Plan No. 1 of 1978: *Federal Equal Employment Opportunity Activities.* President Carter submitted to Congress, February 23, this new reorganization plan which would consolidate Federal Equal Employment Opportunity Activities. Currently, more than a dozen

government units exercise important responsibilities under statutes, Executive orders, and regulations relating to equal employment opportunity. (H. Doc. 95-295).

### REPORTS

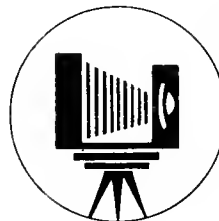
*U. S. Congress. Senate. Committee on Agriculture, Nutrition and Forestry. Sub-committee on Agriculture Research and General Legislation.* Food safety and quality: regulation of chemicals in food and agriculture; hearings before the Subcommittee on Agricultural Research and General Legislation of the Committee.... United States Senate, Ninety-fifth Congress first session. Washington, 1977. KF26.A351.

### CRIS MANUAL AVAILABLE

*Manual of Classification of Agricultural and Forestry Research.* Classifications used in the Current Research Information System. Developed by Research Classification Subcommittee, Agricultural Research Policy Advisory Committee. Revision III. Washington, D.C., Current Research Information System, U.S. Department of Agriculture, 1978. 167 p. Free.

Manual describes data in four different categories: research activities, commodity or resource, field of discipline, and research problem area. Use of this new manual enables the online user to search CRIS with the same codes used by the data base supplier and cuts use of online time.

Requestors should send a self-addressed mailing label to:  
Current Research Information System  
U.S. Dept. of Agriculture  
Rm 6818 So. Agri. Bg.  
Washington, D.C. 20250





## NEW BIBLIOGRAPHIES



The titles listed below are owned by the Library; those lacking call numbers have not yet been cataloged. The foreign titles are available from the Library through loan or photocopy.

*An Annotated Bibliography of Macrophomina Phaseolina 1905-1975.* Compiled by Onkar D. Dhingra and James B. Sinclair. Vicosia, Brasil, Universidade Federal de Vicosia; Urbana, University of Illinois. July 1977. 244 p. Order from: Dr. James B. Sinclair, Department of Plant Pathology, University of Illinois, Urbana, IL 61801. Free. (NAL call no.: Z5074.S73D5).

*Bibliography of Soils of the Tropics. Vol. 2: Tropics in General and Tropical South America.* Compiled by Arnold C. Orvedal. (Agriculture Technology for Developing Countries. Technical Series Bulletin no. 17). Washington, D.C., Office of Agriculture, Technical Assistance Bureau, Agency for International Development. July 1977. 242 p. Order from: AID, R and D Report Distribution Center, 300 North Zeeb Road, Ann Arbor, MI 48106. Publication no. PN-AAD-717. Cost: \$21.35. (NAL call no.: S1.U5).

*Fifty Years of Forestry Research: Annotated Bibliography of the Pacific Southwest Forest and Range Experiment Station, 1926-1975.* Compiled by Vincent P. Aitro. (Pacific Southwest Forest and Range Experiment Station, USDA Forest Service General Technical Report PSW-23). Berkeley, Calif., USDA Forest Service. 1977. 250 p. Order from: Publications Section, Pacific Southwest Forest and Range Experiment Station, P. O. Box 245, Berkeley, CA 94701. Free. (NAL call no.: aSD11.A325).

*Food Science and Technology: A Bibliography of Recommended Materials.* Edited by Richard E. Wallace. Beltsville, Md., National Agricultural Library. USDA New York, Food and Nutrition Division, Special Libraries Association. February 1978. 231 p. Order from: Reference Division, Technical Information Systems, SEA/USDA, Room 300A, National Agricultural Library Bldg., Beltsville, MD 20705.

*Growth of Forests in Canada: Part I: An Annotated Bibliography.* Compiled by A. Bickerstaff and S.A. Hostikka. (Forest Management Institute. Information Report FMR-X-98). Ottawa, Ontario, Canadian Forestry Service, Fisheries and Environment Canada. August 1977. 197 p. Order from: Forest Management Institute, Department of Environment, 396 Cooper Street, Ottawa, ON K1G3Z6, Canada. Free. (NAL call no.: SD13.F64).

*Mezhkhoziaistvennaia kooperatsiia i agropromyshlennaia integratsiia: Ukazatel' literatury za 1973-1976 gg., otechestvennoi-813 nazvanii, inostrannoi-152 nazvaniia* [Inter-Industry Cooperation and Agro-Industry Integration: Literature Guide for 1973-1976, 813 Domestic Titles, 152 Foreign Titles] Compiled by T. V. Filonova. Moskva, T'Sentral'naia nauchnaia sel'skokhoziaistvennaia biblioteka. 1977. 163 p.

*North American Forest History: A Guide to Archives and Manuscripts in the United States and Canada.* Compiled by Richard C. Davis. Santa Barbara, Calif., A.B.C.-Clio Press. 1977. 376 p. Order from: Clio Publications, 446 Tenth Street, Santa Rosa, CA 95401. Cost: \$63.75. (NAL call no.: Z5991.D33).

*North American Forest and Conservation History: A Bibliography.* Compiled by Ronald J. Fahl. Santa Barbara, Calif., A.B.C.-Clio Press. 1977. 408 p. Order from: Clio Publications, 446 Tenth Street, Santa Rosa, CA 95401. Cost: \$39.75. (NAL call no.: Z5991.F33).

*Prof. Dr. Hilbrand Boschma, 22 April 1893 - 22 July 1976: Obituary and Bibliography.* By W. Vervoort. (Rijksmuseum van Natuurlijke Historie. Zoologische bijdragen, no. 22). Leiden, E. J. Brill. May 1977. 28 p. (NAL call no.: 410.9 L59Zo).

*Russian Economic History: A Guide to Information Sources.* Compiled by Daniel R. and Vera Kazmer. (Economics Information Guide Series, vol. 4). Detroit, Gale Research Company. 1977. 520 p. Order from: Gale Research Co., Book Tower, Detroit, MI 48226. Cost: \$18.00. (NAL call no.: Z7165.R9K34).

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*Seleksiia vysokoproduktivnykh porod sel'skokhoziaistvennykh zhivotnykh i ptits. Organizatsiia plemennogo dela. Ukazatel' literatury za 1972-1976 gg., otechestvennoi-705 nazvanii, inostrannoi-295 nazvanii. (Breeding of Highly Productive Breeds of Farm Animals and Fowl. Organization of Breeding Operations. Literature Guide for 1972-1976, 705 Domestic Titles, 295 Foreign Titles). Compiled by T. G. Man'ko. Moskva TSentral'naia nauchnaia sel'skokhoziaistvennaia biblioteka. 1977. 180 p.*

*Uluchshenie lugov i pastbishch: Ukazatel' literatury za 1975-1976 gg., otechestvennoe-770 nazvanii, inostrannoi-234 nazvanii. (Improving Meadow and Pasture Lands: Literature Guide for 1975-1976, 770 Domestic Titles, 234 Foreign Titles.) Moskva, TSentral'naia nauchnaia sel'skokhoziaistvennaia biblioteka. 1977. 176 p.*

*Zambia. Compiled by N. W. Posnett and P. M. Reilly. (Land Resource Bibliography, 9). Surbiton, England, Land Resources Division, Ministry of Overseas Development. 1977. 200 p. Order from: Land Resources Division, Ministry of Overseas Development, Tolworth Tower, Surbiton, Surrey, England KT6 7DY. (NAL call no.: Z7164.L3L3).*

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Clearance has been granted to compile the following bibliographies:

*Extractives in Eastern Hardwoods: A Review. Compiled by John W. Rowe and Anthony H. Conner. For information contact: Max A. Davidson, Editor, Publications, Information Group. USDA Forest Service, Forest Products Laboratory, P.O. Box 5130, Madison, WI 53705.*

*Land Information Systems: An Annotated Bibliography. Compiled by D. David Moyer. For information contact: Dr. D. David Moyer, Natural Resource Economics Division, ESCS, USDA, 340 Agriculture Hall, University of Wisconsin, Madison, WI 53706.*

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NAL-BIBL.-78-2. *Orchids (Orchidaceae): Growing and Breeding. 1970-1977. 165 citations from AGRICOLA. English only. Search by Nancy H. Lewis.*

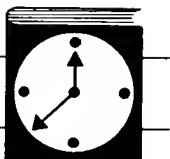
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## AGRICULTURE DATEBOOK



*June 11-14: NATIONAL ASSOCIATION OF COLLEGES AND TEACHERS OF AGRICULTURE.* Theme: Teaching - Learning Procedure: A Universal Concern. University of Manitoba. Contact: Paul Stelmaschuk, Chairman, NACTA Conference, School of Agriculture, University of Manitoba, Winnipeg, Manitoba, R3T 2N2.

*June 11-15: ASSOCIATION OF OFFICIAL SEED ANALYSTS*, Lincoln, Nebraska. Contact: Charles Abbott, Sec.-Treas., Ohio, Dept. Agriculture Lab., Reynoldsburg, OH 43068.

*June 12-14: 14th AMERICAN WATER RESOURCES SYMPOSIUM*, San Francisco, CA. Contact: Kenneth D. Schmidt, 111 Fulton Mall, Suite 306, Fresno, CA 93721.

*June 12-16: 9th INTERNATIONAL CONFERENCE ON YEAST GENETICS AND MOLECULAR BIOLOGY*, Rochester, New York. Sponsors: National Institutes of Health, Bethesda, MD; National Science Foundation, Washington, D.C.; Department of Energy, Washington, D.C. Contact: Dr. Christopher W. Lawrence, Dept. of Radiation Biology and Biophysics, University of Rochester Medical Center, 400 Elmwood Ave., Rochester, N.Y. 14642.

*June 18-21: AMERICAN MEAT SCIENCE ASSOCIATION*, Storrs, Connecticut. Contact: H.K. Johnson, Sec.-Treas, Natl. Livestock & Meat BD, 444 N. Michigan Ave., Chicago, IL 60611.

*June 25-30: PLANT GROWTH REGULATOR WORKING GROUP AND AMERICAN SOCIETY OF PLANT PHYSIOLOGISTS*, Blacksburg, VA. Contact: Patricia A. Richter, Actg. Bus. Exec., 9650 Rockville Pike, Bethesda, MD 20014.

*June 27-30: AMERICAN SOCIETY OF AGRICULTURAL ENGINEERS*, Logan, Utah. Contact: Russell H. Hahn, Asst. Sec., Box 410, St. Joseph, MI 49085.

*July 9-12: AQUATIC PLANT MANAGEMENT SOCIETY ANNUAL MEETING*, Hilton Hotel, Jacksonville, FL. Contact: H.O. Cutler, 2636 W. First St., Jacksonville, FL 32205

*July 9-13: AMERICAN DAIRY SCIENCE ASSOCIATION AND AMERICAN SOCIETY OF ANIMAL SCIENCE*, East Lansing, MI. Contact: Claude J. Cruse, Bus. Mgr., 113 N. Neil St., Champaign, IL 61820.

*July 16-20: AMERICAN SOCIETY FOR HORTICULTURAL SCIENCE AND COUNCIL ON SOIL TESTING AND PLANT ANALYSIS*, Boston, Mass. Contact: Cecil Blackwell, Exec. Dir., Natl Cent. American Horticulture, Mount Vernon, VA 22121.

*July 17-20: AMERICAN VETERINARY MEDICAL ASSN & AUD.*, Dallas, TX. Contact: Russell G. Rongren, Dir Bus Div., 930 N. Meacham Rd., Schaumburg, IL 60196.

*July 17-21: POULTRY SCIENCE ASSOCIATION*, Clemson, S.C. Contact: C.B. Ryan, Sec.-Treas., 311 Illinois Bldg, 113 N. Neil St., Champaign, IL 61820.

*July 30-August 2: SOIL CONSERVATION SOCIETY OF AMERICA*, Denver, CO. Contact: Larry D. Davis, Adm Asst., 7515 N.E. Ankeny Rd, Ankeny, IA 50021.

*August 6-9: AMERICAN AGRICULTURAL ECONOMICS ASSOCIATION*, Blacksburg, VA. Contact: John C. Redman, Sec.-Treas., Kentucky Dept. Agrl Ec., Lexington, KY 40506.

*August 6-9: 5th NORTH FOREST SOILS CONFERENCE*. Colorado State University, Fort Collins. Contact: Office of Conferences and Institutes, Rockwell Hall, Colorado State University, Fort Collins, CO 80523.

*August 29-31: AMERICAN AGRICULTURAL ECONOMICS ASSOCIATION*, Chicago, IL. Contact: John C. Redman, Sec.-Treas., Kentucky Univ. Dept Agrl Ec, Lexington, KY 40506.

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*August 30-September 3: RURAL SOCIOLOGICAL SOCIETY*, San Francisco, CA. Contact: John E. Dunkelberger, Treas., 306A Comer Hall, Auburn Univ., Auburn, AL 36830.

*September 4-8: IAEA SYMPOSIUM ON SEED PROTEIN IMPROVEMENT IN CEREALS AND GRAIN LEGUMES*, Neuherberg, West Germany. Contact: John H. Kane, Special Assistant for Conferences, Office of Technical Information, MS A1-5216, ERDA, Washington, D.C. 20545.

*September 10-16: 2nd INTERNATIONAL CONGRESS ON ECOLOGY (INTERCOL)*, Jerusalem, Israel. Contact: Professor G.A. Knox, Zoology Department, University of Canterbury, Private Bag, Christchurch 1, New Zealand.

*September 17-21: 3rd SYMPOSIUM ON WEED CONTROL*, C.N.R.A., Dakar, Senegal. Contact: J.R. Guillou, Dept. de Malherbologie, C.N.R.A., Route de St-Cyr, 78000 Versailles, France.

*September 17-22: AMERICAN ASSOCIATION OF CEREAL CHEMISTS AND SIXTH INTERNATIONAL CEREAL AND BREAD CONGRESS*, Winnipeg, Canada. Contact: Raymond Tarleton, Exec VP, 3340 Pilot Knob Rd., St. Paul, MN 55121.

*October 10-12: PECORA IV. APPLICATION OF REMOTE SENSING DATA TO WILDLIFE MANAGEMENT*. Sioux Falls, South Dakota. Sponsored by National Wildlife Federation, in cooperation with U. S. Geologic Survey NASA, U. S. Fish and Wildlife Service, Canadian Wildlife Service, International Association of Fish and Wildlife Agencies. Contact: Michael E. Berger, National Wildlife Federation, 1412 15th Street, N.W., Washington, D.C. 20036 (202-797-6881).

*October 29-November 2: AMERICAN PHYTOPATHOLOGICAL SOCIETY*, Tucson, AZ. Contact: R.J. Tarleton, Exec VP, 3340 Pilot Knob Rd., St. Paul, MN 55121.

*November 5-9: THIRD INTERNATIONAL CONFERENCE ON GOVT PRODUCTION AND DISEASE*, Tucson, AZ. Contact: Judith Brown, Div. of Continuing Education, Babcock Bldg., Room 1201, University of Arizona, Tucson, AZ 85719.



*November 6-10: 14th AMERICAN WATER RESOURCES CONFERENCE - WATER AND ENERGY ENVIRONMENT ECONOMICS*, Orlando, FL. Contact: Melvin W. Anderson, Dept. of Structures, Materials and Fluids, University of South Florida, Tampa, FL 33620.

*November 8-10: NATIONAL SYMPOSIUM ON WETLANDS*, Orlando, FL. Contact: Phillip E. Greison, U.S. Geological Survey, WRD, National Center, MS 412, Reston, VA 22092.

*November 12-15: EMPLOYEE SUPERVISION IN LIBRARIES*. Allerton Institute, University of Illinois Graduate School of Library Science, Urbana. Contact: Edward Kalb, 116 Illine Hall, University of Illinois, Champaign, IL 61820.

*November 12-15: NATIONAL ASSOCIATION OF STATE UNIVERSITIES AND LAND GRANT COLLEGES*, St. Louis, MO. Contact: Russell I. Thackrey, Sec., 1 Depont Circle, Suite 710, N.W., Washington, D.C. 20036.

*November 26-30: ENTOMOLOGICAL SOCIETY OF AMERICA*, Houston, TX. Contact: Wallace P. Murdock, Exec Sec., 4603 Calvert Rd., College Park, MD 20740.

*December 11-15: INTERNATIONAL SYMPOSIUM ON THE USE OF ISOTOPES AND RADIATION IN RESEARCH AND SOIL-PLANT RELATIONSHIPS*, Colombo, Sri Lanka. Contact: John H. Kane, Special Assistant for Conferences, Office of Technical Information, MS A1-5216, ERDA, Washington, D.C. 20545.

*December 18-21: AMERICAN SOCIETY OF AGRICULTURAL ENGINEERS*, Chicago, IL. Contact: Russell H. Hahn, Asst. Sec., Box 410, St. Joseph, MI 49085.

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*AGRICULTURAL LIBRARIES INFORMATION NOTES* is published monthly by the U.S. Department of Agriculture, Science and Education Administration, Technical Information Systems, National Agricultural Library Building, Beltsville, MD 20705. Leila Moran, Editor.